

Abstract

Biometric system is a recognition system which uses its user body part as identifier. The mentioned body part could be an iris, finger print or palmprint depend on the system used. System will only recognize the body part from its users so intruders is unable to use their own body part. One of the advantages of biometric system is where existence of its user is necessary for the system to be used. The uses of biometric system for examples are attendance system, security system and e-ktp.

One of the body part that can be used as a biometric is palm. There is two part from palm that can be used as biometric. The first part is palmprint and the second part is hand geometry or hand shape. Palmprints from different persons have a tendency to be different from one another and palmprint change is slight in a long time. Hand shape have a tendency of size and finger length difference on different person. Both parts can be used at the same time in multimodal biometric systeml.

In this last assignment an implementation will be made on multimodal biometric system using palmprint and hand shape. Palm print will be processed using Block Based Line Detection method and hand shape will be processed using Chain Code method. Recognition on processed attributes will be done by using Dynamic Time Warping method. The result of recognition process will be used to recognize palm owner.

Keywords: biometric, multimodal, palm print, hand geometry